

## CLAIMS

1. A free-market environmental management system, comprising:

means for developing operational processes specifications for land use to conform to specified outputs;

means for validating that said operational processes produce outputs that meet said specifications;

means for auditing and certifying that said operational processes produce outputs that meet said specifications;

means for assessing financial cost of mitigating said operational processes to restore or protect corresponding ecosystem assets;

means for assigning said financial cost to remaining ecosystem assets at risk;

means for indemnifying failure to produce outputs that meet said specifications and to repair or to mitigate said failure; and

means for indemnifying failure to allocate sufficient primary coverage and to repair or to mitigate said failure.

2. A method for managing ecosystem assets, comprising the steps of:

developing experimental processes;

deviating from said processes to meet conformance specifications to improve condition of ecosystem assets;

validating that said experimental processes were conducted according to said specifications;

auditing and certifying that said experimental processes were conducted

according to said specifications;

assessing financial cost of said experimental processes to improve the condition of said ecosystem assets;

indemnifying failure to produce outputs that meet specifications posited by the experiment and repair or mitigate said failure;

indemnifying failure to allocate sufficient primary coverage to repair or to mitigate said failure;

developing natural process descriptions from data derived from said experimental mitigating process operations;

validating and certifying that said natural processes correspond with said process specifications;

assigning financial value to ecosystem assets for their ability to mitigate operational processes;

marketing financial value to mitigate operational processes with ecosystem process assets for their ability to mitigate operational processes;

indemnifying failure to produce outputs that meet said conformance specifications and mitigate said failure; and

indemnifying failure to allocate sufficient primary coverage to mitigate said failure.